



Climate change and health in cities: Impacts of heat and air pollution and potential co-benefits from mitigation and adaptation

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Abstract:

Excess morbidity and mortality related to extremely hot weather and poor air quality are found in cities worldwide. This is a major public health concern for cities now and looking toward the future because the interactions of global climate change, urban heat islands, and air pollution are predicted to place increasing health burdens on cities. The proposed mitigation and adaptation strategies in cities' climate risk management plans may produce health co-benefits by reducing emissions and cooling temperatures through changes in the built environment. There are challenges, however, to implementing the plans and the most widely documented beneficial policy to date is the adoption of heat warning and air quality alert systems to trigger emergency responses.

Source: <http://dx.doi.org/10.1016/j.cosust.2011.01.001>

Resource Description

Early Warning System:

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

A focus of content

Exposure :

weather or climate related pathway by which climate change affects health

Air Pollution, Temperature

Air Pollution: Interaction with Temperature, Particulate Matter

Temperature: Extreme Heat

Geographic Feature:

resource focuses on specific type of geography

Urban

Geographic Location:

resource focuses on specific location

Climate Change and Human Health Literature Portal

Global or Unspecified

Health Co-Benefit/Co-Harm (Adaption/Mitigation):

specification of beneficial or harmful impacts to health resulting from efforts to reduce or cope with greenhouse gases

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Health Impact:

specification of health effect or disease related to climate change exposure

General Health Impact

Mitigation/Adaptation:

mitigation or adaptation strategy is a focus of resource

Adaptation, Mitigation

Resource Type:

format or standard characteristic of resource

Review

Timescale:

time period studied

Time Scale Unspecified

Vulnerability/Impact Assessment:

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content